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FIG. 1

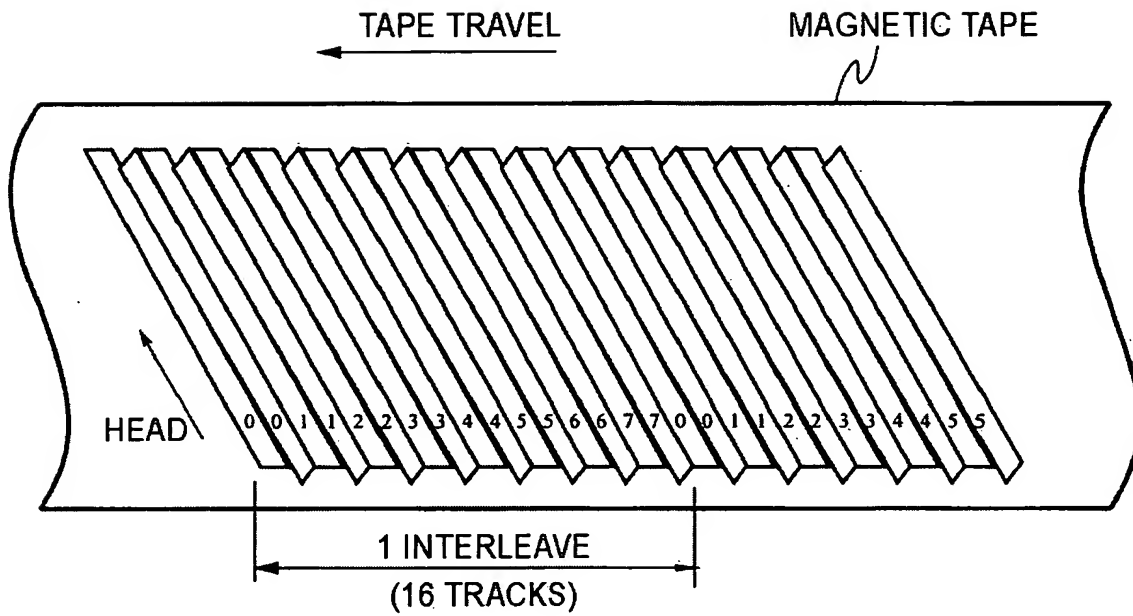
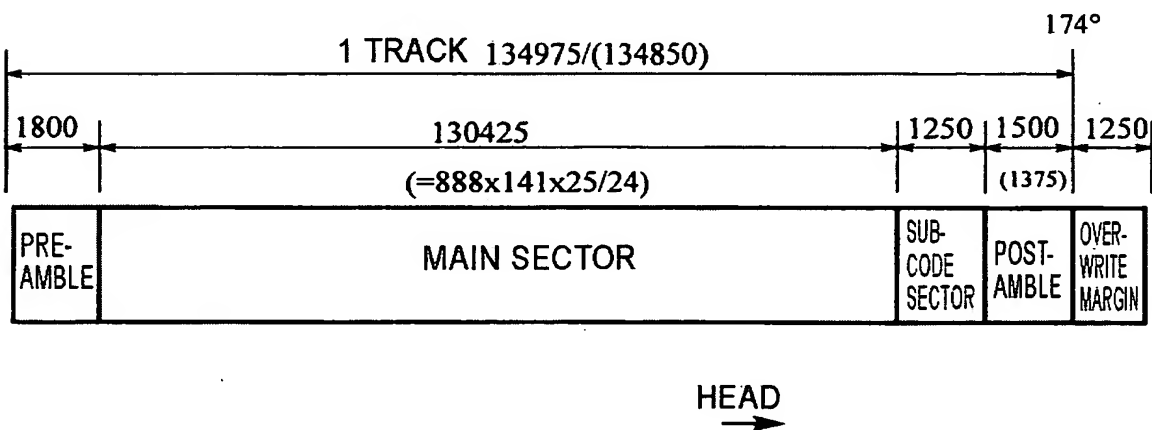


FIG. 2

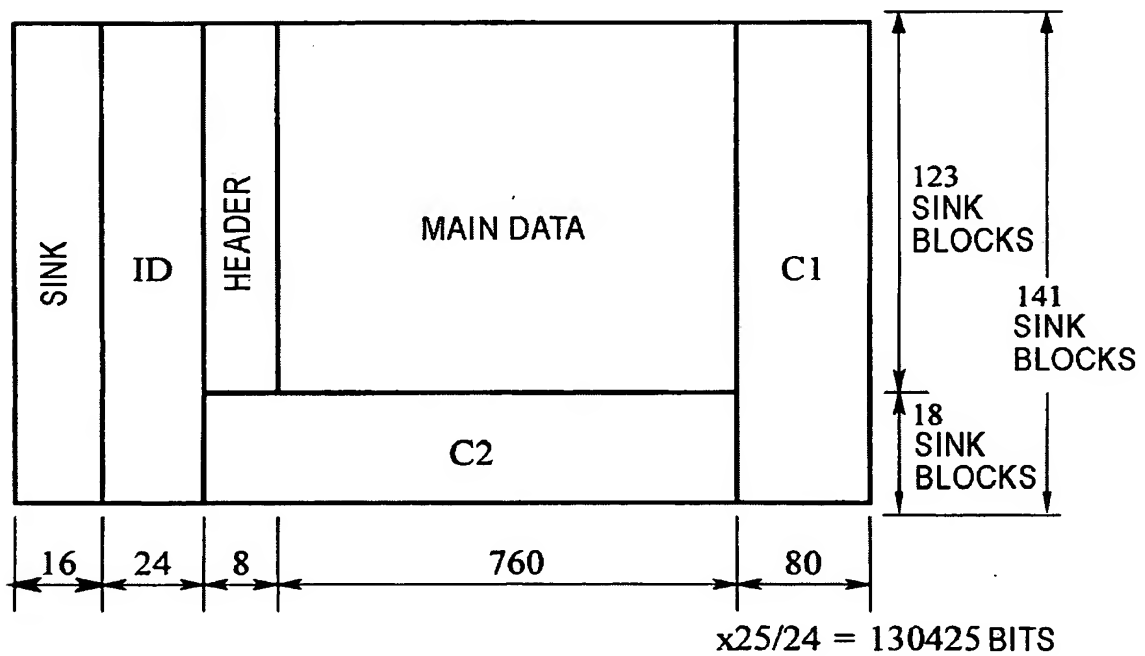


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FIG. 3

| RUN PATTERN | MSB | CODE WORD | LSB |
|------------------|-----|---|-----|
| RUN PATTERN A | | 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 1 1 | |
| RUN PATTERN B | | 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 1 1 0 0 0 1 1 1 0 0 | |

FIG. 4



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FIG. 5

| | MSB | LSB |
|-----------------|-----------------------------------|-----|
| SINK PATTERN M0 | 0 1 0 1 1 1 1 1 1 1 1 1 1 0 0 0 0 | |
| SINK PATTERN M1 | 1 0 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1 | |

FIG. 6

| ID0 | | ID1 | ID2 |
|----------------|--------------------------------|-------------------|-------------------|
| b7-5 | b4 - 0 | MSB | MSB |
| FORMAT TYPE | TRACK PAIR NUMBER (0 TO 31) | SINK BLOCK NUMBER | OVERWRITE PROTECT |

FIG. 7

| | | | | | | | |
|-----------|-----------|----|----|----|----|----|----|
| b7 | b6 | b5 | b4 | b3 | b2 | b1 | b0 |
| DATA TYPE | | | | | | | |
| 0 | NULL | | | | | | |
| 1 | AUX | | | | | | |
| 2 | PES-VIDEO | | | | | | |
| 3 | PES-VIDEO | | | | | | |
| 4 | TS-1H | | | | | | |
| 5 | TS-2H | | | | | | |
| 6 | SEARCH | | | | | | |
| 7 | RESERVED | | | | | | |

| SEARCH SPEED | |
|--------------|------------|
| 0 | RESERVED |
| 1 | RESERVED |
| 2 | SEARCH x8 |
| 3 | RESERVED |
| 4 | SEARCH x24 |
| 5-7 | RESERVED |

| AUX MODE | b4-2 | b1 |
|----------|--------------------|----------|
| 0 | AUX-V | FRC |
| 1 | AUX-A | RESERVED |
| 2 | PES-PSI 1 | RESERVED |
| 3 | PES-PSI 2 | RESERVED |
| 4 | AUX-SYSTEM (ECCTB) | DF |
| 5 | AUX-M | FRC |
| 6,7 | RESERVED | RESERVED |

FIG. 8

| MAIN (BEFORE 24-TO-25 MODULATION) | | | | | (Kbps) | (NUMBER OF SB) | | (%) |
|-----------------------------------|---------|--------------|-------------|--------|----------|----------------|--------|-------|
| SINK | ID | SB HEADER | AUX | 501 | C1 | 9.0% | 2.2 | 1.6% |
| | | | VIDEO DATA | 25,021 | | | 109.9 | 77.9% |
| | | | AUDIO DATA | 421 | | | 1.85 | 1.3% |
| | | | SEARCH DATA | 2,073 | | | 9.1 | 6.5% |
| | | C2 | | | | | 18 | 12.8% |
| 2 BYTES | 3 BYTES | 1 BYTE | 95 BYTES | | 10 BYTES | 141 | 100.0% | |

FIG. 9

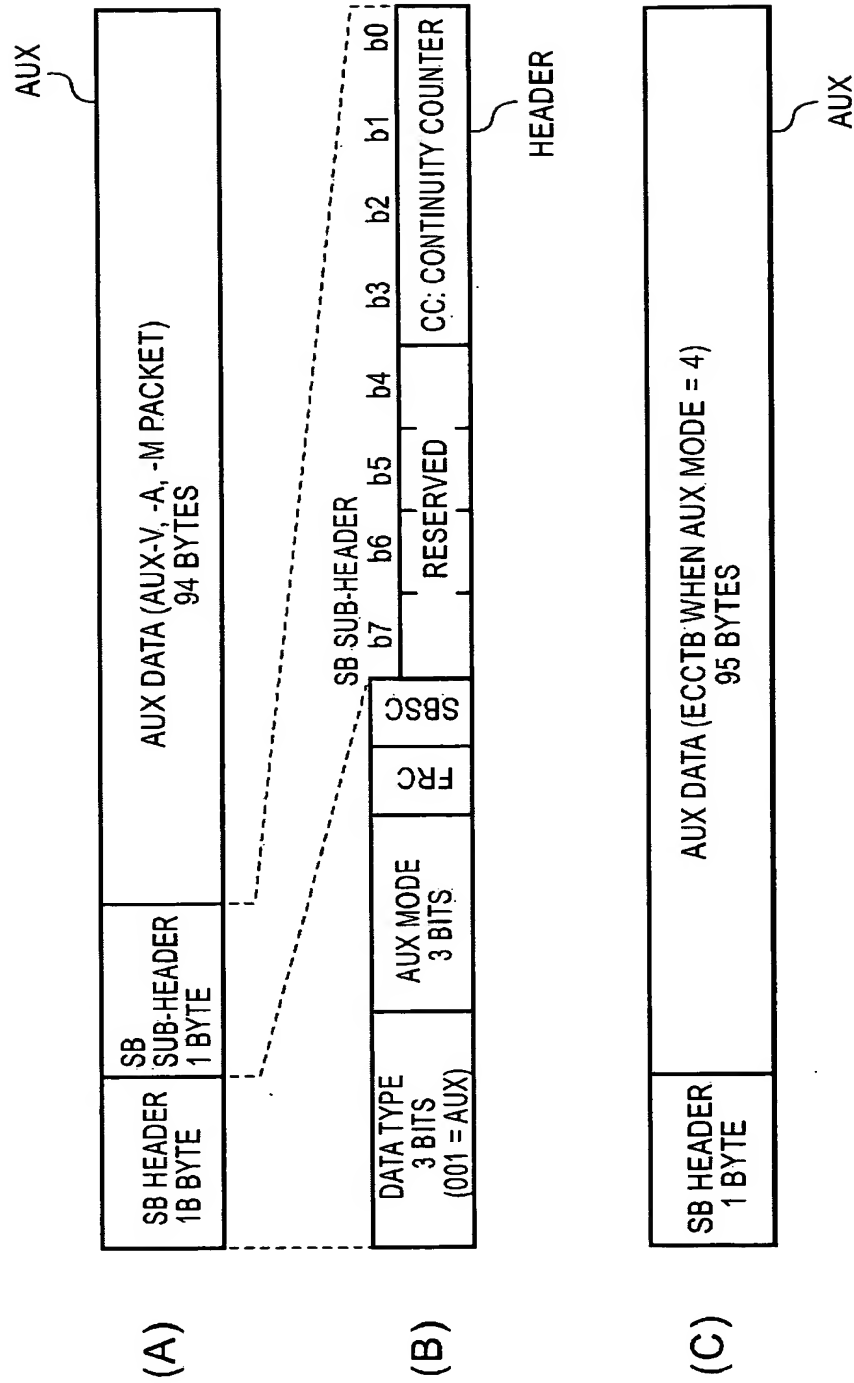


FIG. 10

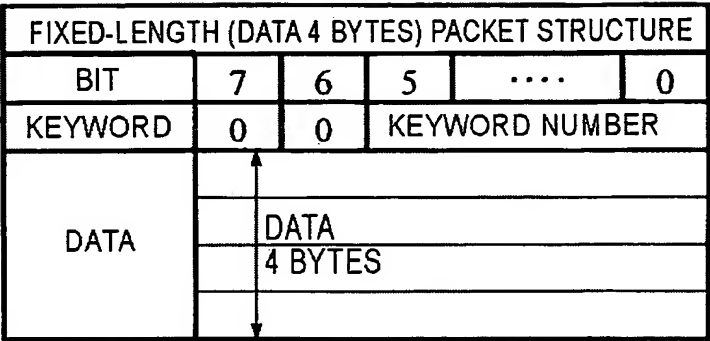


FIG. 11

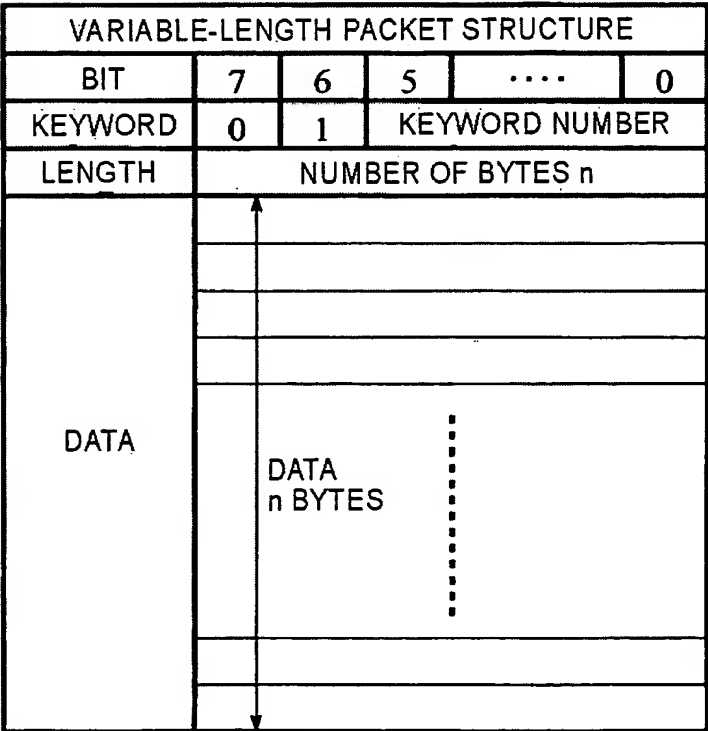


FIG. 12

FOUR-BYTE FIXED LENGTH

| KEY-WORD | AUX TYPE | CONTENT | REMARKS |
|----------|----------|---------------------|-------------------------------------|
| 0 | SUB | TTC | FOR 1 PACKET OF 5 BYTES IN SUB-CODE |
| 1 | SUB | BINARY GROUP | |
| 2 | SUB | PART NUMBER | |
| 3 | SUB | CHAPTER START | |
| 4 | SUB | ATNF (ATN+FLG) | |
| 5 | SUB | RECORDING DATE | |
| 6 | SUB | RECORDING TIME | |
| 7 | SUB | ETN | |
| 8 | RES. | RESERVED | USED WHEN NO VALID DATA |
| : | RES. | RESERVED | |
| 62 | RES. | RESERVED | |
| 63 | RES. | NO-INFORMATION PACK | |

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FIG. 13

VARIABLE-DATA-LENGTH PACKET

| KEY-WORD | AUX TYPE | CONTENT | REMARKS |
|----------|----------|-------------------------|--|
| 64 | AUX-A | AUD-FRAM | PES-AUD & EDIT INFO. |
| 65 | AUX-A | RESERVED | |
| 66 | AUX-A | RESERVED | |
| 67 | AUX-A | RESERVED | |
| 68 | AUX-V | VID-FRAM | PES-VIDEO & EDIT INFO. |
| 69 | AUX-V | RESERVED | |
| 70 | AUX-V | RESERVED | |
| 71 | AUX-V | RESERVED | |
| 72 | AUX-V | UMID | 64-BYTE DATA COMPATIBLE-WITH-DV 5-BYTE PACKET MAXIMUM OF 18 JAPANESE TEXT |
| 73 | AUX-V | DV PACKET | |
| 74 | AUX-V | RESERVED | |
| 75 | AUX-V | RESERVED | |
| 76 | AUX-V | RESERVED | |
| 77 | AUX-V | ASCII CHARACTER MESSAGE | |
| 78 | AUX-V | SHIFT JIS MESSAGE | |
| 79 | AUX-V | BINARY | |
| 80 | SYSTEM | ECCTB | EDIT INFO/SUB-CODE DATA |
| 81 | SYSTEM | RESERVED | |
| 82 | SYSTEM | RESERVED | |
| 83 | SYSTEM | RESERVED | |
| 84 | RESERVED | RESERVED | |
| : | RESERVED | RESERVED | |
| 119 | RESERVED | RESERVED | |
| 120 | AUX-M | RESERVED | |
| 121 | AUX-M | | |
| 122 | AUX-M | | |
| 123 | AUX-M | | |
| : | AUX-M | | |
| 126 | AUX-M | | |
| 127 | AUX-N | NULL | NULL PACKET |

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FIG. 14

| DATA # | CONTENT | NUMBER OF BYTES | REMARKS |
|--------|--|-----------------|---|
| 0. | AUDIO FRAME KEYWORD PACKET | 1 | KEYWORD = 64 |
| 1. | LENGTH | 1 | 92 |
| 2. | VTR MODE | 1 | OPERATION MODE FOR TS OUTPUT |
| 3. | ATNF (FLE+ATN+FLG) | 5 | SAME CONTENT AS COMBINED VID-FRAME |
| 8. | EXTENDED TRACK NUMBER | 3 | SAME CONTENT AS COMBINED VID-FRAME |
| 11. | TTC | 5 | SAME CONTENT AS COMBINED VID-FRAME |
| 16. | | | |
| 16. | DATE/TIME ORIGINAL | 10 | IN THE ORDER OF DATE(5B) + TIME(5B) KW 1B+ |
| 26. | DATE/TIME MAIN | 8 | IN THE ORDER OF DATE(4B) + TIME(4B) |
| 34. | GENERATION NUMBER | 1 | INCLUDING COPYRIGHT 2 BITS |
| 35. | | | |
| 35. | STATUS INFORMATION 1 (WITH HISTORY) | 1 | CONNECTING POINT INCLUDING EDITING: 0, 1 TO 7f COUNT UP |
| 36. | STATUS INFORMATION 2 (WITHOUT HISTORY) | 1 | STARTING POINT OF RECORDING DURING EDITING: 0, 1 TO 7f COUNT UP |
| 37. | AUDIO MODE | | 10 (TOTAL OF BYTES) |
| 37. | AUDIO FRAME SIZE | 2 | NUMBER OF SAMPLES OF AAU (MEANINGFUL ONLY IN LPCM) |
| 39. | SAMPLING FREQUENCY | 0.375 | |
| 39. | QUANTIZATION | 0.625 | (5 BITS) VALUE = 0 TO 31 BITS |
| 40. | AUDIO CHANNEL MODE | 0.5 | |
| 40. | AUDIO COMPRESSION MODE | 0.5 | |
| 41. | BIT-RATE INDEX | 0.5 | |
| 41. | RESERVED | 0.5 | |
| 42. | AUDIO SOURCE CONTROL | 1 | APPROXIMATELY THE SAME MEANING AS DV |
| 43. | | | |
| 43. | RESERVED | 4 | |
| 47. | DECODING REFERENCE INFORMATION | | 11 (TOTAL OF BYTES) |
| 47. | AUDIO FRAME NUMBER (FIRST) | 3 | INTEGRATED VALUE OF GOAF |
| 50. | NUMBER OF AUDIO FRAMES | 1 | GOAF: NUMBER OF AAUS CONTINUOUSLY RECORDED |
| 51. | PTS | 5 | |
| 56. | AUDIO PTS COMPENSATION | 2 | |
| 58. | | | |
| 58. | RESERVED (AUD-FRAME) | 3 | |
| 94. | | | |
| | TOTAL | 94 | |

FIG. 15

| DATA # | CONTENT | NUMBER OF BYTES | REMARKS |
|--------|--|-----------------|---|
| 0.0 | VIDEO FRAME KEYWORD PACKET | 1 | KEYWORD = 68 |
| 1.0 | LENGTH | 1 | 92 |
| 2.0 | VTR MODE | 1 | OPERATION MODE FOR TS OUTPUT |
| 3.0 | ATNF (FLE+ATN+FLG) | 5 | INFORMATION CONCERNING ETN (EFN) POSITION CORRESPONDING TO DTS TIME |
| 8.0 | ETN 8 (EXTENDED TRACK NUMBER) | 3 | EFN CORRESPONDING TO TTC AT DTS TIME |
| 11.0 | TTC | 5 | TTC AT DTS TIME |
| 16.0 | BINARY GROUP | 5 | FOR CORRESPONDING FRAME WHEN TTC IS TC |
| 21.0 | | | |
| 21.0 | DATE/TIME ORIGINAL | 10 | IN THE ORDER OF DATE(5B) + TIME(5B) KW 1B |
| 31.0 | DATE/TIME MAIN | 8 | IN THE ORDER OF DATE(4B) + TIME(4B) |
| 39.0 | GENERATION NUMBER | 1 | INCLUDING COPYRIGHT 2 BITS |
| 40.0 | | | |
| 40.0 | STATUS INFORMATION 1 (WITH HISTORY) | 1 | CONNECTING POINT INCLUDING EDITING: 0, 1 TO 7f COUNT UP |
| 41.0 | STATUS INFORMATION 2 (WITHOUT HISTORY) | 1 | STARTING POINT OF RECORDING DURING EDITING: 0, 1 TO 7f COUNT UP |
| 42.0 | SEARCH DATA MODE | 1 | SEARCH RECORDING PATTERN |
| 43.0 | | | |
| 43.0 | VIDEO PACK INFORMATION | | 11 |
| 43.0 | PACK FRAME NUMBER | 1 | NUMBER OF FRAMES IN PACK, NO FF INFORMATION |
| 44.0 | Picture_Number_from_I-pic | 1 | NUMBER OF FRAMES COUNTING FROM ADJACENT I PICTURE |
| 45.0 | FIRST FRAME HEADER | | |
| 45.0 | DATA-H | 1 | |
| 46.0 | VBV DELAY | 2 | |
| 48.0 | HEADER SIZE | 1 | FOR CORRECTION OF DIFFERENCE IN VBV DELAY HEADER SIZE |
| 49.0 | DTS | 5 | |
| 54.0 | VIDEO MODE | 16 | |
| 70.0 | | | |
| 70.0 | EXTENDED DV PACK ENABLE | 1 | DV PACK ENABLE b0 TO b2: 1 TO 3 ENABLE: 1 |
| 71.0 | EXTENDED DV PACK | 15 | CLOSED CAPTURE 4 BYTES + 1KW/FRAME x3 |
| 86.0 | | | |
| 86.0 | RESERVED (VID-FRAME) | 8 | |
| 94.0 | | | |
| | TOTAL | 94 | |

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FIG. 16

| SEARCH DATA (SEARCH RECORDING PATTEN) |
|---------------------------------------|
| b0: x4 OPTION |
| b1: x8 MAIN DATA |
| b2: x8 HELPER DATA |
| b3: x16 OPTION |
| b4: x24 OPTION |
| b5: x32 OPTION |
| b6 TO 7: RESERVED |

FIG. 17

| DATA-H | b3-0 | |
|-------------------|---------------|------------------|
| 0: RESERVED | 8: NO PICTURE | STUFFING PACK |
| 1: I PICTURE | 9: UNEDITABLE | |
| 2: P PICTURE | a: RESERVED | |
| 3: B PICTURE | b: RESERVED | A-END |
| 4: COPY PICTURE | c: RESERVED | REC-END |
| 5: V-END | d: RESERVED | AUD |
| 6: RESERVED | e: RESERVED | AUX |
| 7: NO INFORMATION | f: RESERVED | |

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FIG. 18

| CONTENT | NUMBER OF BYTES | REMARKS |
|---------------------------|-----------------|---|
| ECCTB PACKET HEADER | 1 | DATA = 80 |
| LENGTH (PACKET DATA) | 1 | DATA = 93 |
| SUB-CODE INFORMATION | | SAME CONTENT AS IN SUB-CODE IN FIRST ECC TRACK |
| ATANF (FLE+ATN+FLG) | 5 | RECORD VALUE OF FIRST ECC TRACK |
| EXTENDED TRACK NUMBER | 3 | RECORD VALUE OF FIRST ECC TRACK |
| TTC | 5 | SAME AS SUB-CODE IN FIRST ECC TRACK |
| BINARY GROUP | 5 | WRITTEN IN THE SAME SUB-CODE AS IN TTC |
| DATE/TIME ORIGINAL | 10 | ORIGINAL DATE/TIME WITHOUT CHANGE EVEN AFTER COPYING |
| DATE/TIME MAIN | 8 | (USED FOR DISPLAY) |
| GENERATION NUMBER | 1 | ADD ONE EACH TIME LAST MODIFICATION IS UPDATED |
| EDITABLE HEADER MAP | | 25 |
| Picture_Number_from_I-pic | 1 | NUMBER OF FRAMES COUNTED FROM ADJACENT I PICTURE |
| FIRST EDITABLE HEADER | | |
| DATA-H | 1 | PES VIDEO |
| VBV DELAY | 2 | |
| HEADER SIZE | 1 | FOR CORRECTION OF DIFFERENCE IN VBV DELAY HEADER SIZE |
| DTS | 5 | |
| CONTINUITY COUNTER | 1 | b7-4: AUDIO, b3-0: VIDEO |
| POSITION (SB) | 1 | AUD-FRAME PACKET (AUX POSITION TO BE EDITED) |
| POSITION (TRACK) | 1 | |
| SECOND EDITABLE HEADER | | |
| DATA-H | 1 | PES VIDEO |
| VBV DELAY | 2 | |
| HEADER SIZE | 1 | FOR CORRECTION OF DIFFERENCE IN VBV DELAY HEADER SIZE |
| DTS | 5 | |
| CONTINUITY COUNTER | 1 | b7-4: AUDIO, b3-0: VIDEO |
| POSITION (SB) | 1 | AUDIO AUX |
| POSITION (TRACK) | 1 | (POSITION OF FIRST DATA IN SECOND EDITABLE HEADER) |
| EDIT STATUS ECC | 1 | COUNT UP TO 0, 7f FOR EVERY ECC AT EDITING POINT |
| SEARCH DATA MODE | 1 | SEARCH RECORDING PATTERN |
| SEARCH PCS | 1 | INDICATE SEARCH DATA RECORDING INFORMATION |
| SEARCH DATA BLOCK NUMBER | 1 | DATA DIVISION NUMBER AT x8 SPEED (1 TO 9) 00, FF: NO INFORMATION |
| VIDEO MODE | 16 | SAME CONTENT AS IN VID-frame AUDIO MODE |
| AUDIO MODE | 10 | SAME CONTENT AS IN AUD-frame VIDEO MODE |
| RESERVED | 1 | |
| TOTAL | 95 | |

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FIG. 19

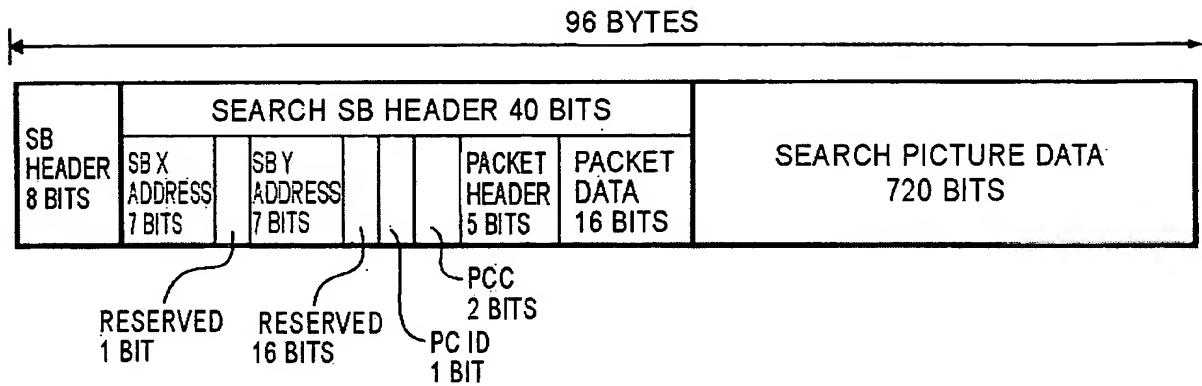


FIG. 20

| PACKET HEADER | CONTENT | L/H | REMARKS | |
|---------------|----------------|-----|-----------------------------------|--|
| 0 | SH | L | SEARCH HEADER (IMAGE INFORMATION) | |
| 1 | SH | H | SEARCH HEADER (IMAGE INFORMATION) | |
| 2 | TTC | L | CONTENT OF SUB-CODE | |
| 3 | TTC | H | | |
| 4 | RECORDING TIME | L | | |
| 5 | RECORDING TIME | H | | |
| 6 | RECORDING DATE | L | | |
| 7 | RECORDING DATE | H | | |
| 8 | ATN+FLG | L | | |
| 9 | ATN+FLG | H | | |
| 10 | ETN | L | | |
| 11 | ETN | H | | |
| 12 | BINARY GROUP | L | | |
| 13 | BINARY GROUP | H | | |
| 14 | PART NO. | L | (FOR RECORDED TAPE) | |
| 15 | PART NO. | H | (FOR RECORDED TAPE) | |
| 16 | CHAPTER START | L | (FOR RECORDED TAPE) | |
| 17 | CHAPTER START | H | (FOR RECORDED TAPE) | |
| 16~31 | RESERVED | | RESERVED | |

{ FOR DISPLAY

{ FOR SEARCH
POSITIONAL
INFORMATION

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FIG. 21

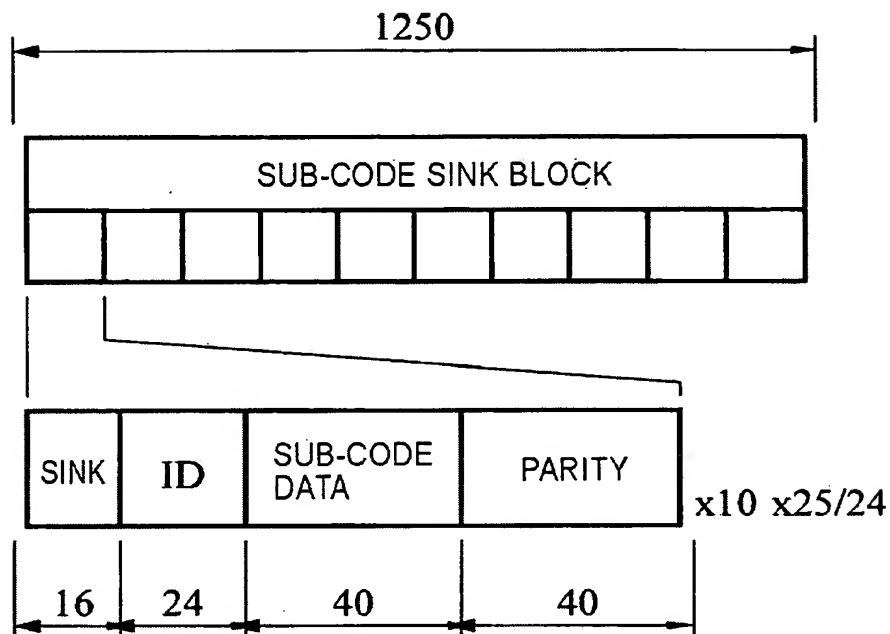


FIG. 22

| | MSB | LSB |
|-----------------|-----------------------------------|-----|
| SINK PATTERN S0 | 1 0 0 1 1 1 1 1 1 1 1 1 1 0 0 0 0 | |
| SINK PATTERN S1 | 0 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1 | |

FIG. 23

| SB No. | ID0 | | ID1 | | ID2 | |
|-----------|--------|-------------------|----------|-----------|-------------------|-----|
| | | | MSB | LSB | MSB | LSB |
| 0 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 1 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 2 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 3 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 4 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 5 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 6 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 7 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 8 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |
| 9 | F_TYPE | TRACK PAIR NUMBER | RESERVED | SB NUMBER | OVERWRITE PROTECT | |

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FIG. 26

| FLE | | | |
|-----|------|---------------------------------|---|
| BIT | NAME | CONTENT OF DATA | DETAILED DATA |
| 7 | SF1 | PRESENCE OF x8 SEARCH HELPER | 0: WITH HELPER, 1: WITHOUT HELPER |
| 6 | SF2 | PRESENCE OF x24 SEARCH DATA | 0: WITH DATA, 1: WITHOUT DATA |
| 5 | SPH | x24 SEARCH PHASE (0 - 2) | PERIOD COUNTER OF 0, 1, AND 2 REMAINDER OF DIVIDING QUOTIENT GIVEN BY DIVIDING ETN BY 16 BY 3 |
| 4 | | | |
| 3 | EPO | EDIT PICTURE OFFSET (0 - 15) | PHASE DIFFERENCE FROM MAIN DATA VARY FOR EVERY FRAME 15 = NO INFORMATION |
| 2 | | | |
| 1 | | | |
| 0 | | | |

FIG. 27

| FLG | | | |
|-----|------|------------------------------|--|
| BIT | NAME | CONTENT OF DATA | DETAILED DATA |
| 7 | I | INDEX ID | SEARCH POINT MARK (CORRESPONDING TO DV) |
| 6 | - | RESERVED | |
| 5 | P | PP ID | MARK FOR STILL-PICTURE SEARCH (CORRESPONDING TO DV) |
| 4 | - | RESERVED | |
| 3 | EF | REC END ECC FLAG | GENERATE USING ALT AIR |
| 2 | PF | PICTURE TYPE FLAG (0 - 7) | GENERATE USING ALT AIR 1 = I PICTURE, 2 = B PICTURE, 3 = P PICTURE, 4 = C PICTURE, 5 = V-END, 7 = NO INFORMATION |
| 1 | | | |
| 0 | | | |

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FIG. 28

| BYTE POSITION NUMBER | ETE | | | | | | | |
|----------------------------|-------------|---|---|---|---|---|---|---|
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| D0 | 0 | 0 | 7 | | | | | |
| D1 | LSB | | | | | | | |
| D2 | ETN 24 BITS | | | | | | | |
| D3 | MSB | | | | | | | |
| D4 | RESERVED | | | | | | | |

FIG. 29

| | TITLE 3: TIME CODE : TTC OR TC | | | | | | | |
|-----|--------------------------------|-----------------------------|----------------------------|---|-----------------------------|---|---|---|
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| PC0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| PC1 | S2/BF | S1 | FRAME POSITIVE POSITION | | FRAME NEGATIVE POSITION | | | |
| PC2 | S3 | SECOND POSITIVE POSITION | | | SECOND NEGATIVE POSITION | | | |
| PC3 | S4 | MINUTE POSITIVE POSITION | | | MINUTE NEGATIVE POSITION | | | |
| PC4 | S6 | S5 | HOUR POSITIVE POSITION | | HOUR NEGATIVE POSITION | | | |

FIG. 30

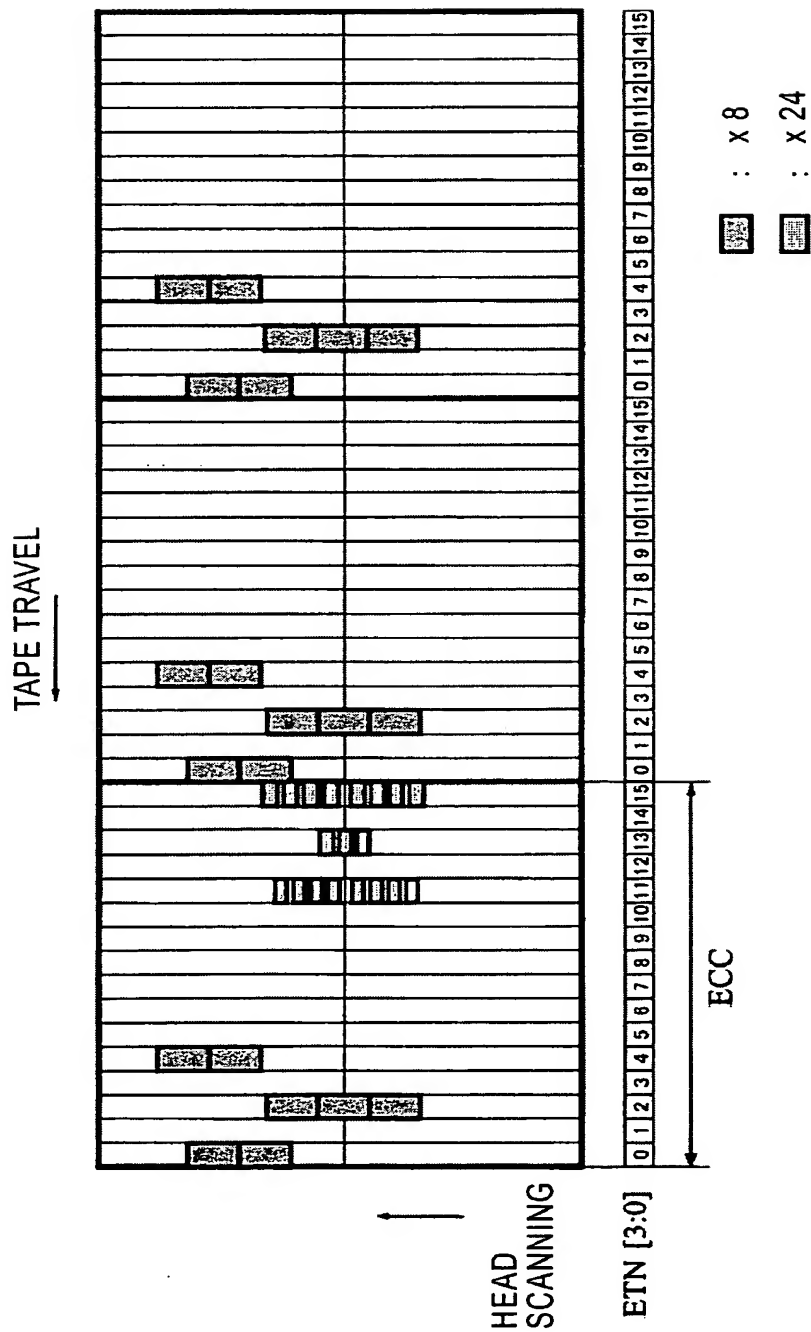


FIG. 31

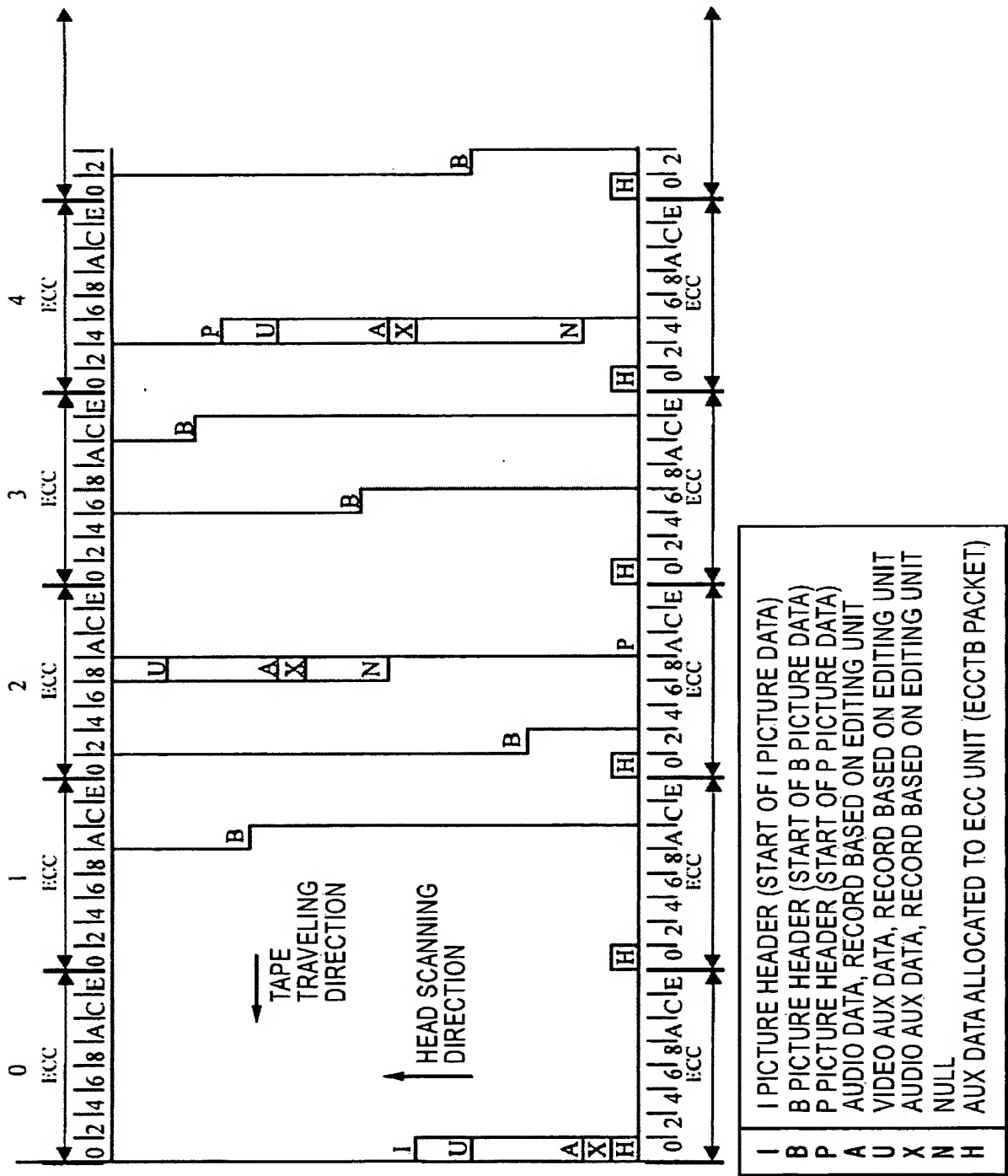


FIG. 32

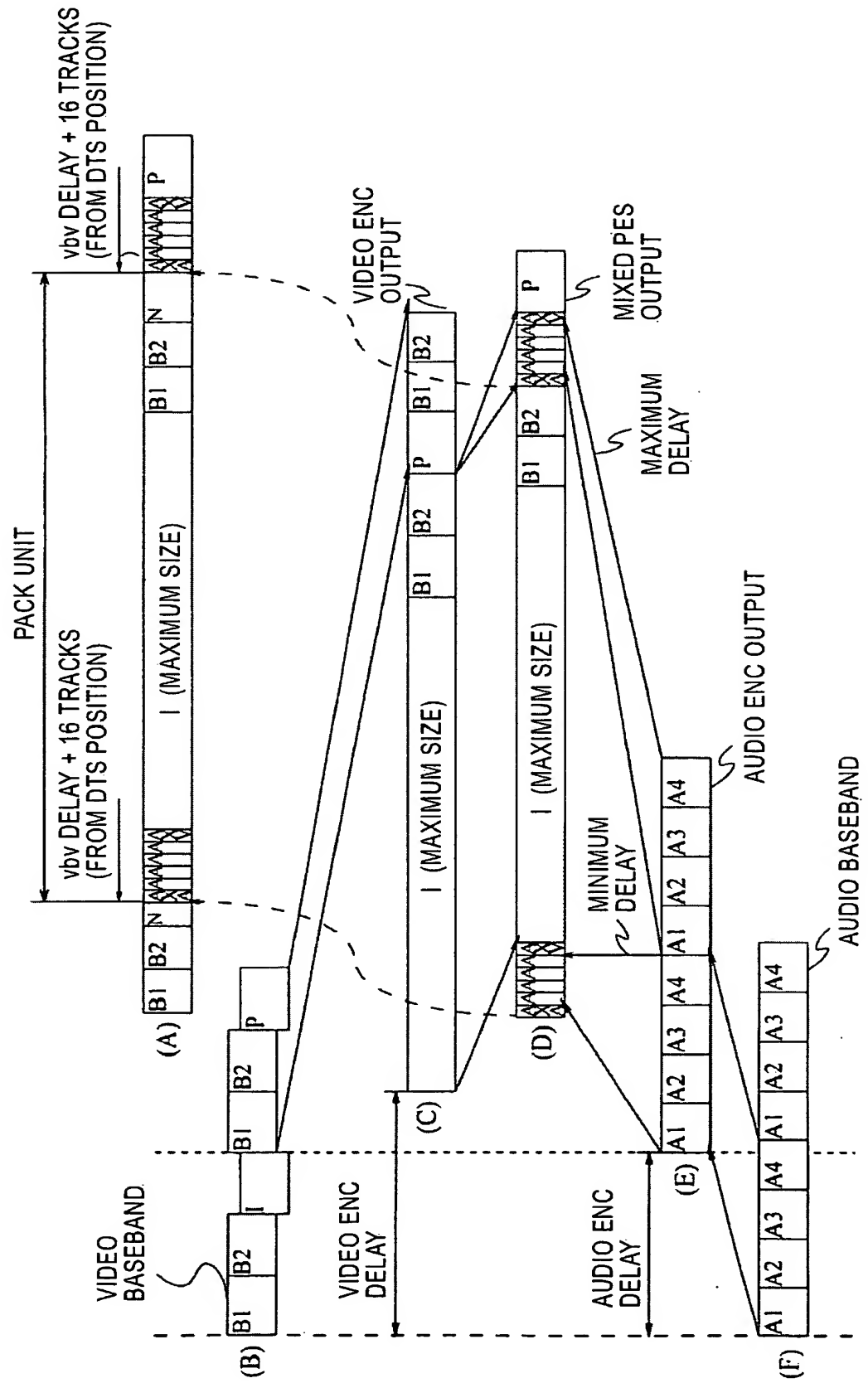
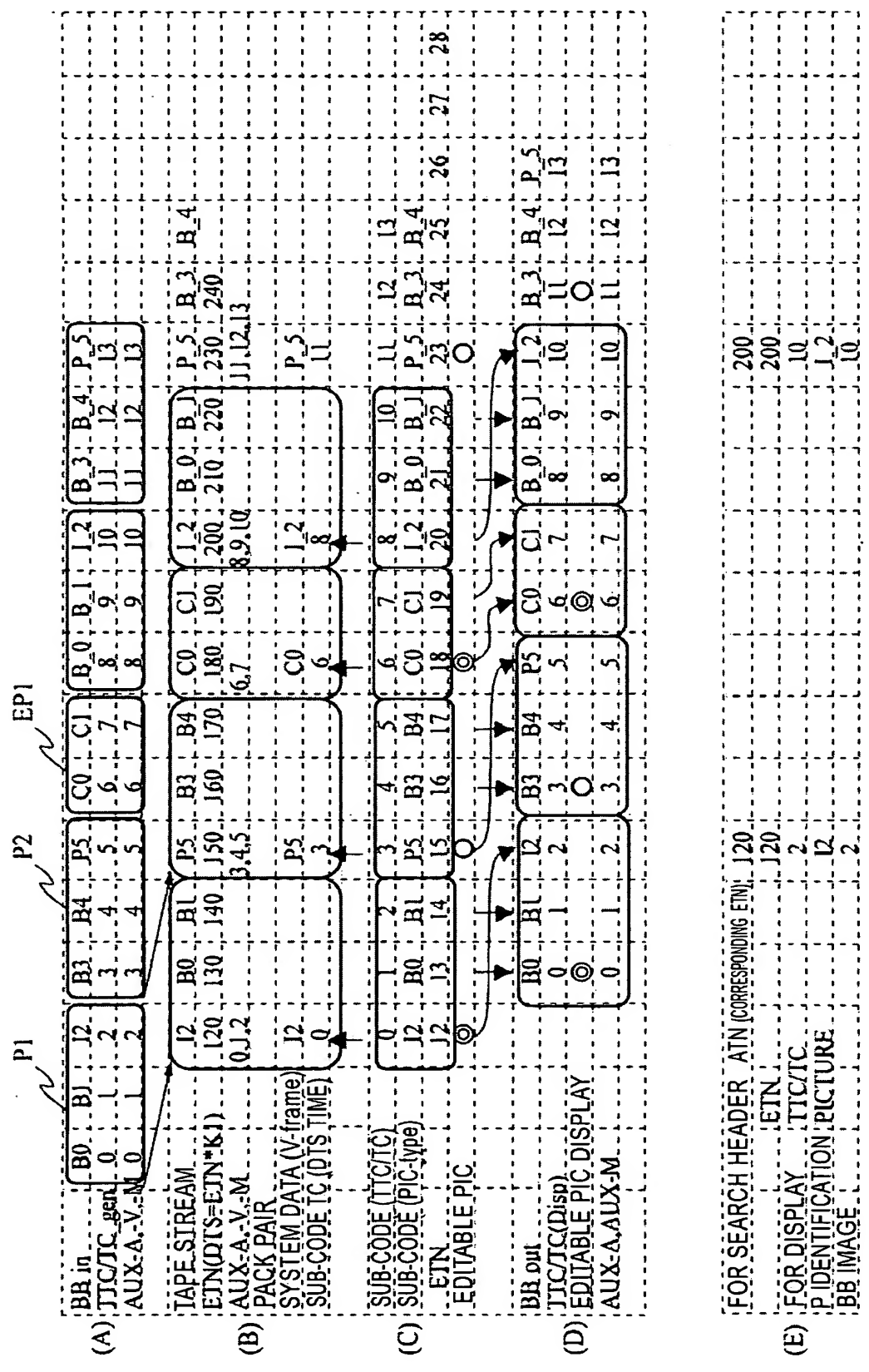


FIG. 33



The diagram illustrates the structure of a video stream, showing the relationship between Pack Units, Pack Pairs, and Edit Pack Units. The diagram is divided into three main sections: Pack Unit, Edit Pack Unit, and First Aux-V.

Pack Unit: This section shows a sequence of Pack Pairs. Each Pack Pair consists of a PACK -A and a PACK -V. The Pack Unit is defined as the sequence of Pack Pairs.

Edit Pack Unit: This section shows a sequence of Edit Pack Pairs. Each Edit Pack Pair consists of an EDIT PACK -A and an EDIT PACK -V. The Edit Pack Unit is defined as the sequence of Edit Pack Pairs.

First Aux-V: This section shows a sequence of First Aux-V units. Each First Aux-V unit consists of a First Aux-V and a First Aux-V. The First Aux-V is defined as the sequence of First Aux-V units.

The diagram also shows the relationship between the Pack Unit and the Edit Pack Unit, and between the Pack Unit and the First Aux-V.

| | | | |
|--------------------------------------|----------------|---------------------------------------|----------------|
| COUPLING UNIT | PACK | AUX-A AT EDITING POINT | EDIT AUX-A |
| COUPLING UNIT PAIR | PACK-PAIR | AUX-V AT EDITING POINT | EDIT AUX-V |
| COUPLING UNIT AUDIO | PACK -A | | |
| COUPLING UNIT VIDEO | PACK -V | AUDIO IMMEDIATELY AFTER EDITING POINT | FIRST PACK-A |
| COUPLING UNIT AT EDITING POINT | EDIT PACK | AUX-A IMMEDIATELY AFTER EDITING POINT | FIRST AUX-A |
| COUPLING UNIT PAIR AT EDITING POINT | EDIT PACK PAIR | AUX-V IMMEDIATELY AFTER EDITING POINT | FIRST AUX-V |
| COUPLING UNIT AUDIO AT EDITING POINT | EDIT PACK -A | INSERTION UNIT AT EDITING POINT | EDIT PACK UNIT |
| COUPLING UNIT VIDEO AT EDITING POINT | EDIT PACK -V | EDITING UNIT | PACK UNIT |

FIG. 35

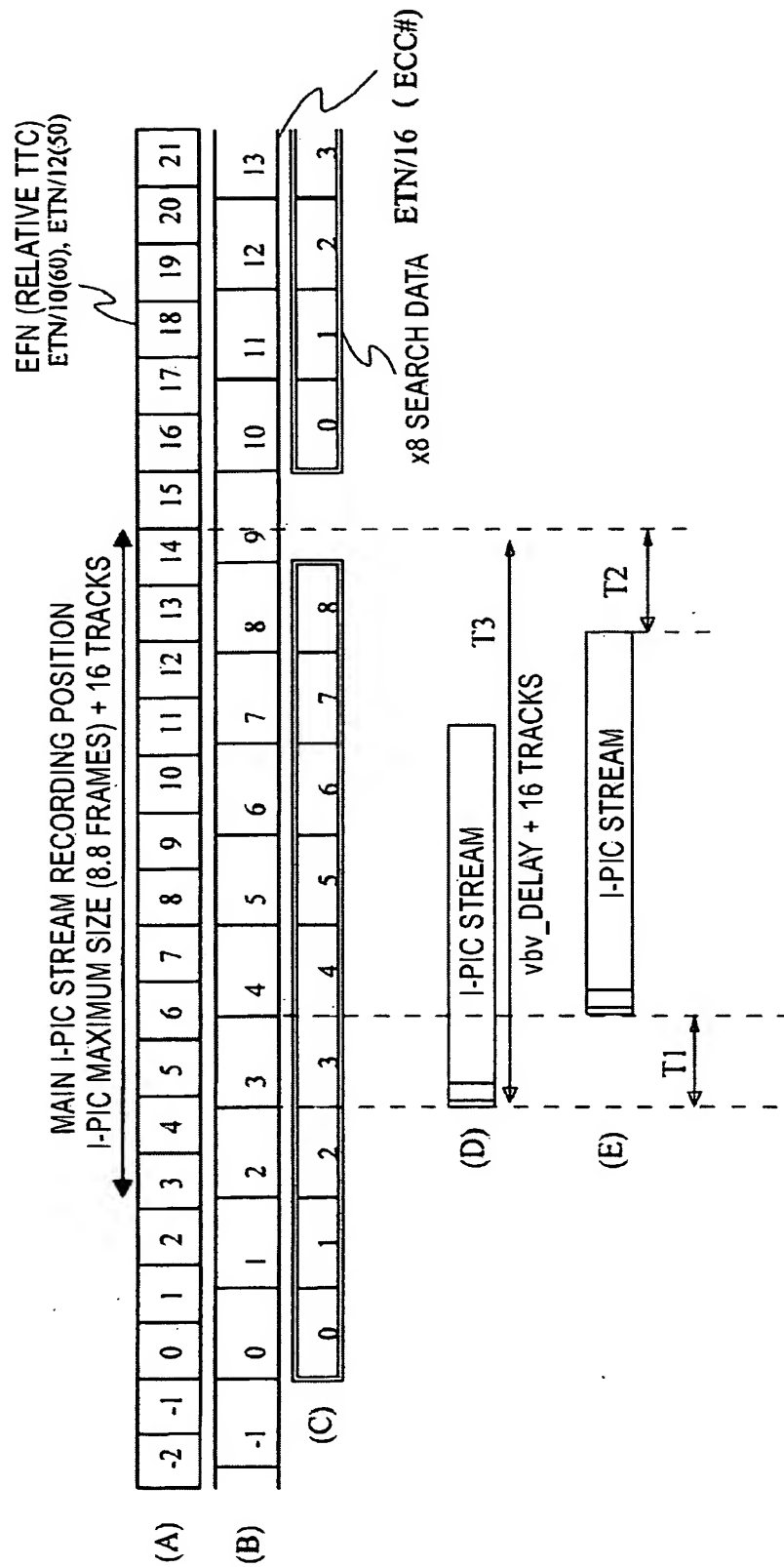


FIG. 36

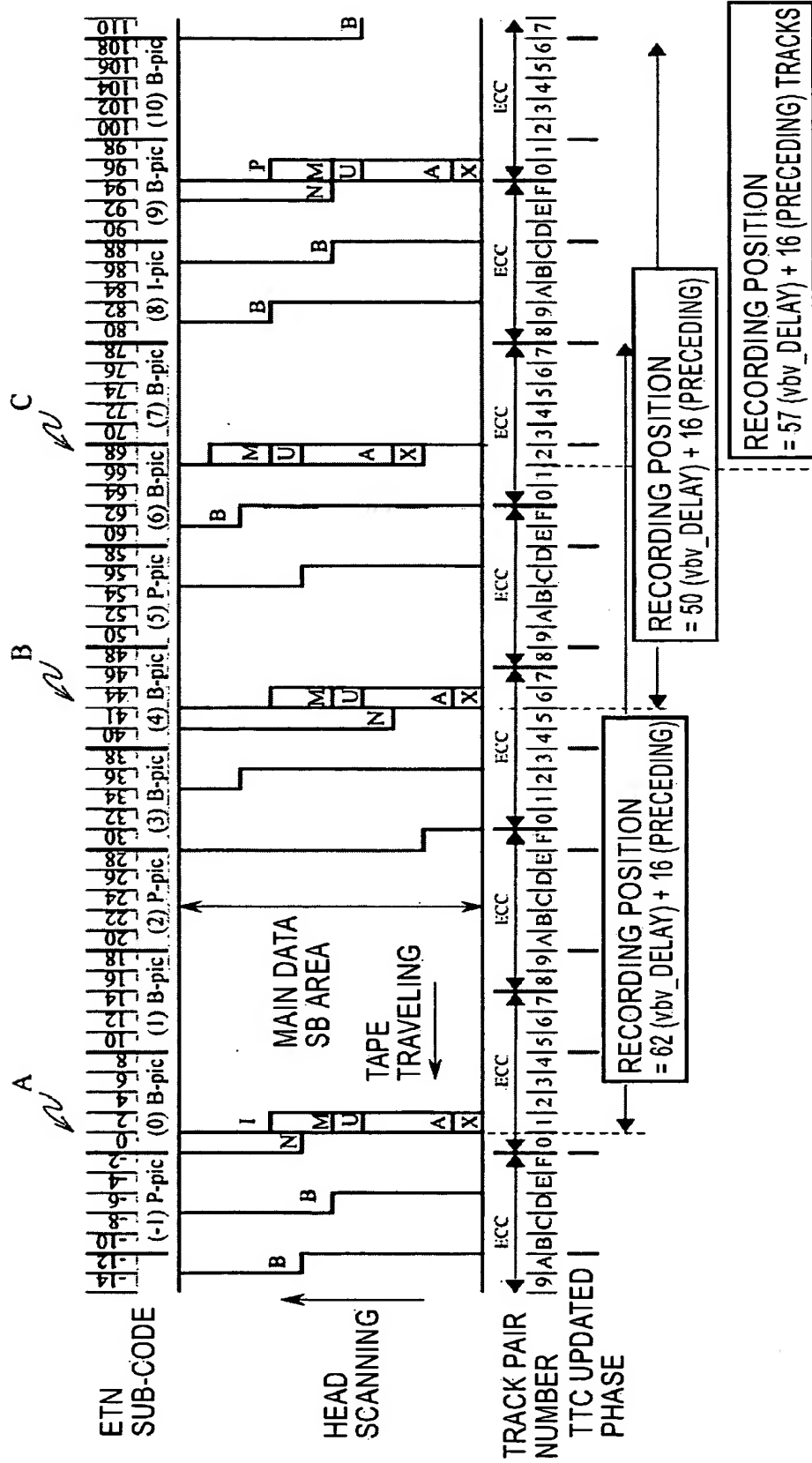


FIG. 37

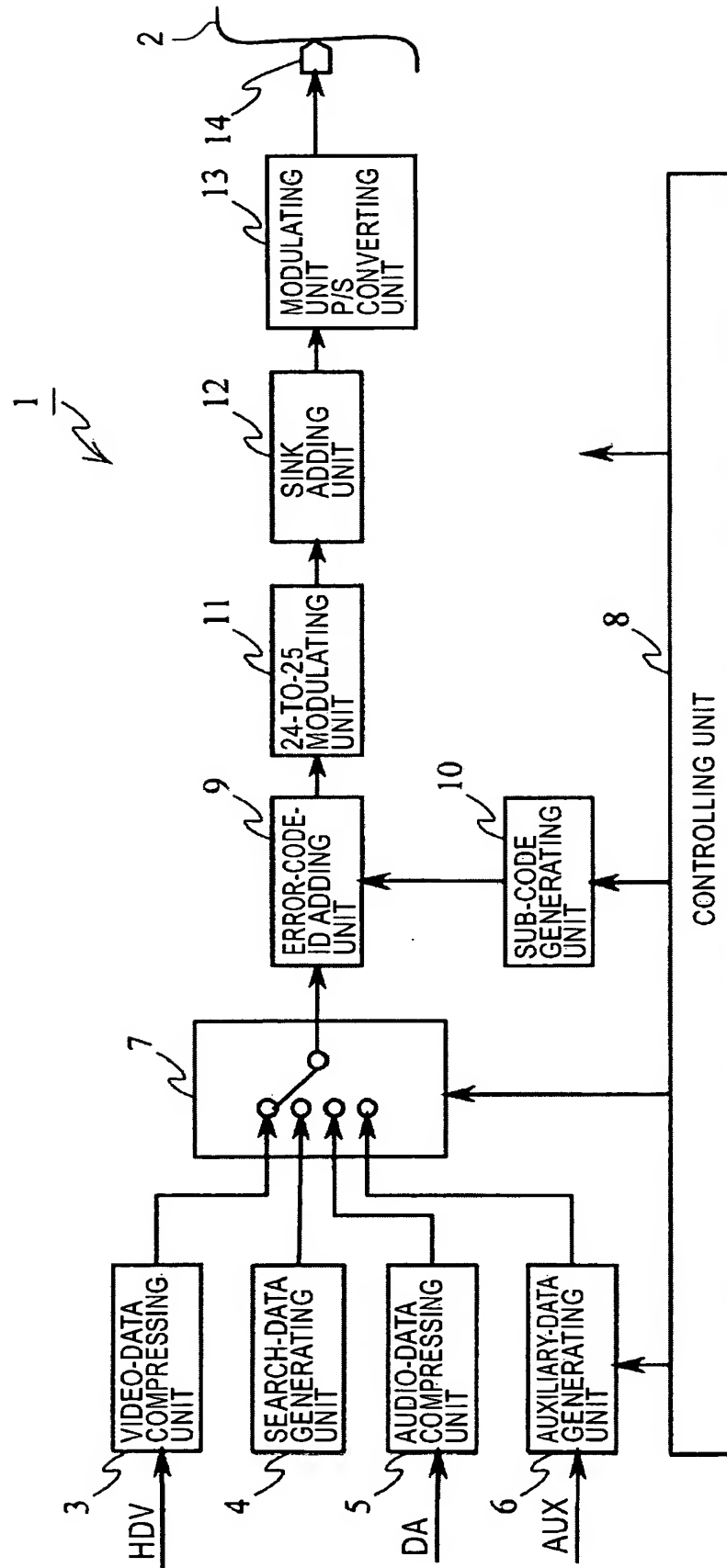


FIG. 38

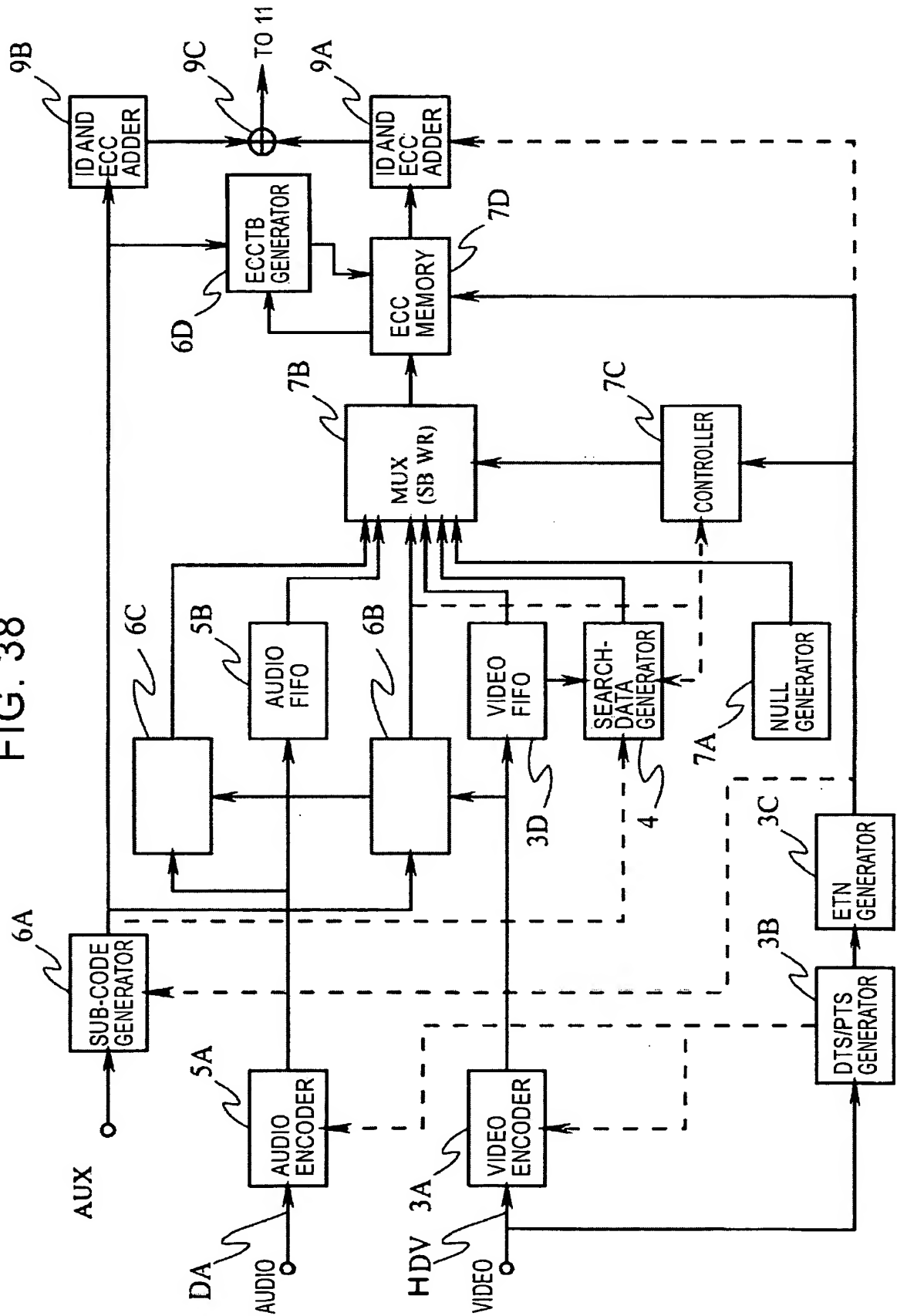


FIG. 39

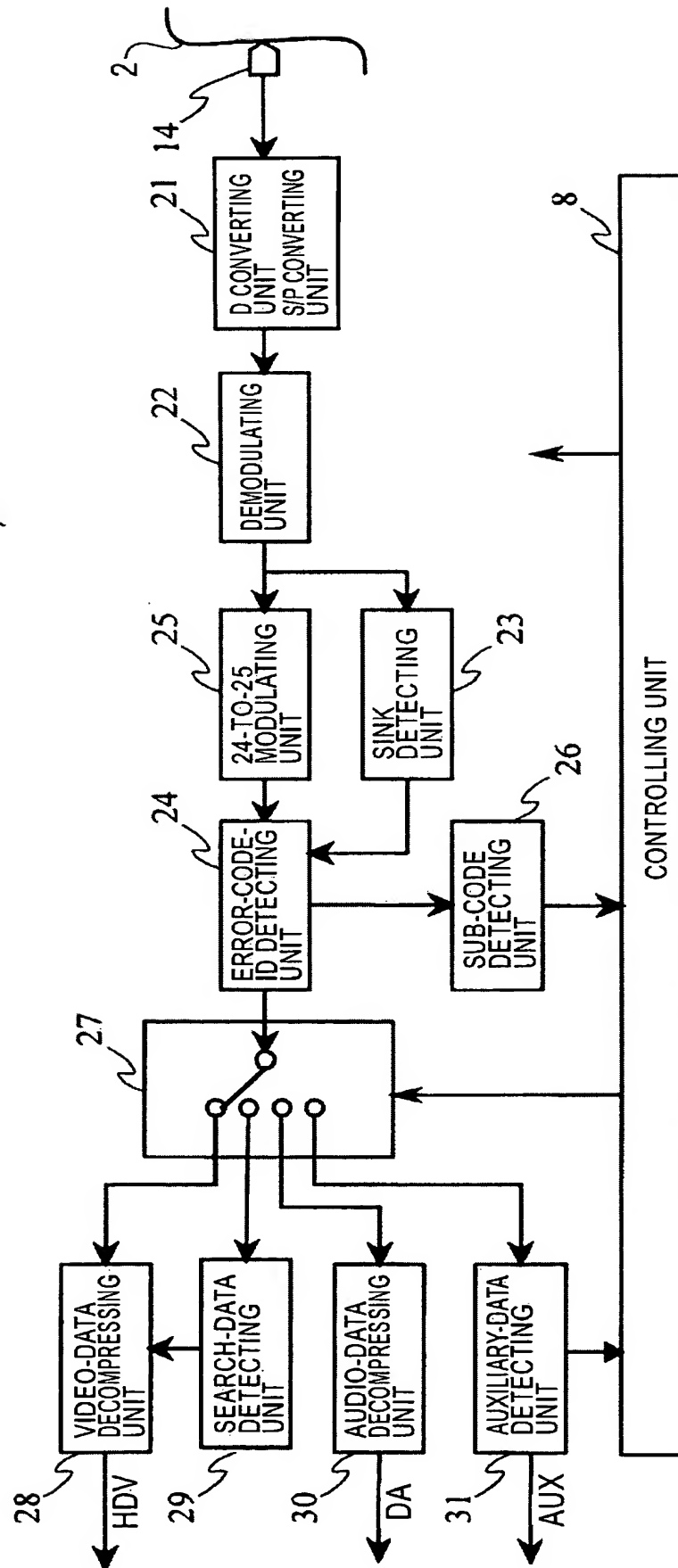
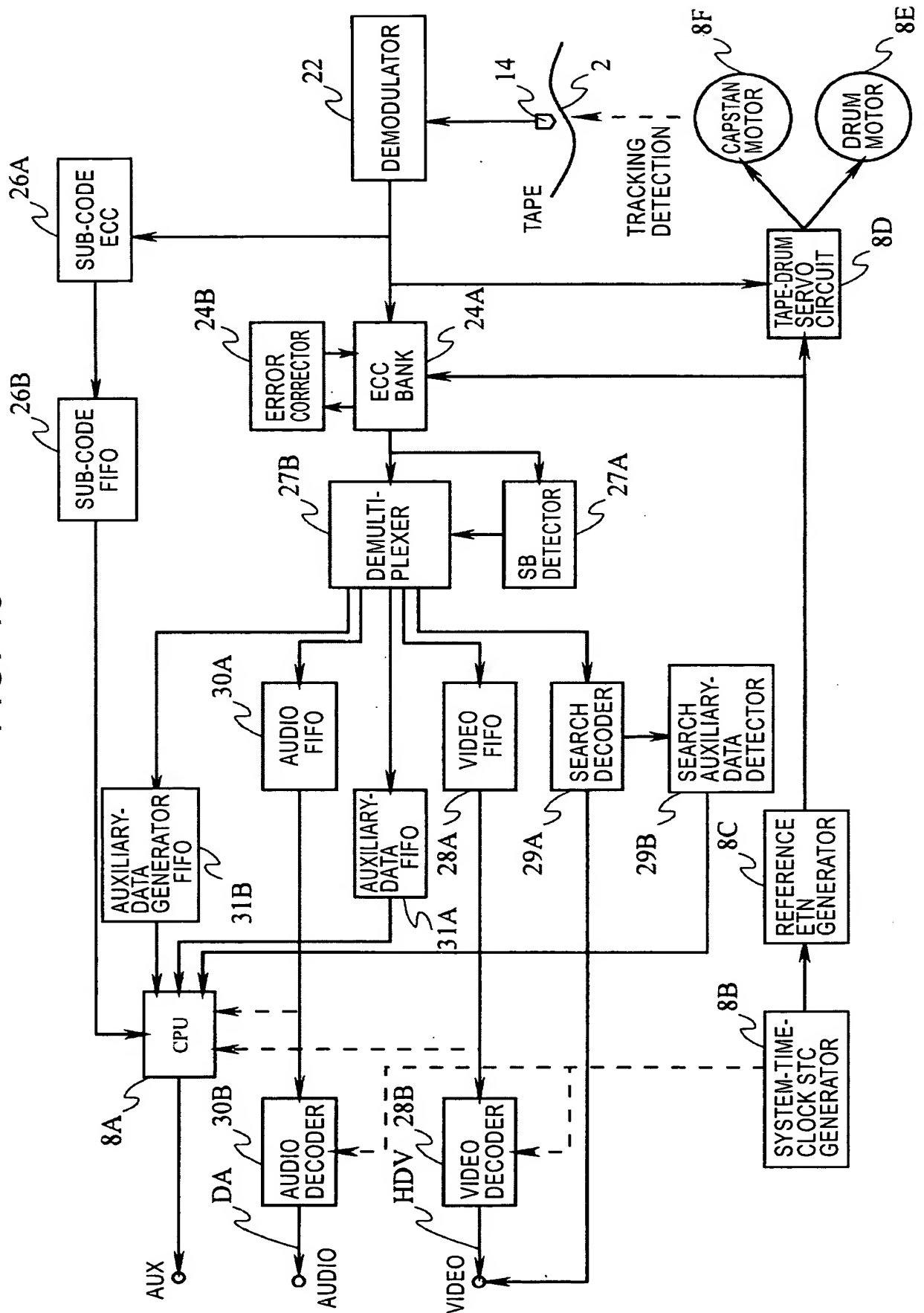


FIG. 40



REFERENCE NUMERALS

1: VIDEO TAPE RECORDER
2: MAGNETIC TAPE
3: VIDEO-DATA COMPRESSING UNIT
3A: VIDEO ENCODER
3B: DTS/PTS GENERATOR
3C: ETN GENERATOR
3D, 28A: VIDEO FIFO
4: SEARCH-DATA GENERATING UNIT
5: AUDIO-DATA COMPRESSING UNIT
5A: AUDIO ENCODER
5B, 30A: AUDIO FIFO
6: AUXILIARY-DATA GENERATING UNIT
6A: SUB-CODE GENERATOR
6B: AUXILIARY-DATA GENERATOR FOR VIDEO
6C: AUXILIARY-DATA GENERATOR FOR AUDIO
6D: ECCTB GENERATOR
7: MULTIPLEXING UNIT
7A: NULL GENERATOR
7B: MULTIPLEXER
7C: CONTROLLER
7D: ECC MEMORY
8: CONTROLLING UNIT
8A: CENTRAL PROCESSING UNIT
8B: SYSTEM-TIME-CLOCK STC GENERATOR
8C: REFERENCE ETN GENERATOR
8D: TAPE-DRUM SERVO CIRCUIT
8E: DRUM MOTOR
8F: CAPSTAN MOTOR
9: ERROR-CODE ID ADDING UNIT
9A, 9B: ID AND ECC ADDER
9C: ADDER
10: SUB-CODE GENERATING UNIT
11: 24-TO-25 MODULATING UNIT
12: SINK ADDING UNIT
13: MODULATING UNIT AND P/S CONVERTING UNIT
14: MAGNETIC HEAD
21: DIGITAL CONVERTING UNIT AND S/P CONVERTING UNIT
22: DEMODULATING UNIT
23: SINK DETECTING UNIT
24: ERROR-CORRECTING ID DETECTING UNIT
24A: ECC BANK
24B: ERROR CORRECTOR
25: 25-TO-24 CONVERTING UNIT
26: SUB-CODE DETECTING UNIT
26A: SUB-CODE ECC
26B: SUB-CODE FIFO
27: SEPARATING UNIT
27A: SB DETECTOR
27B: DEMULTIPLEXER
28: VIDEO-DATA DECOMPRESSING UNIT
28B: VIDEO DECODER

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29: SEARCH-DATA DETECTING UNIT
29A: SEARCH DECODER
29B: SEARCH AUXILIARY-DATA DETECTOR
30: AUDIO-DATA DECOMPRESSING UNIT
30B: AUDIO DECODER
31: AUXILIARY-DATA DETECTING UNIT
31A: AUXILIARY-DATA FIFO
31B: AUXILIARY-DATA GENERATOR FIFO